

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P634509

Luminaire Tested: GWS-SA3B-830-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P634509  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3B-830-U-SL2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

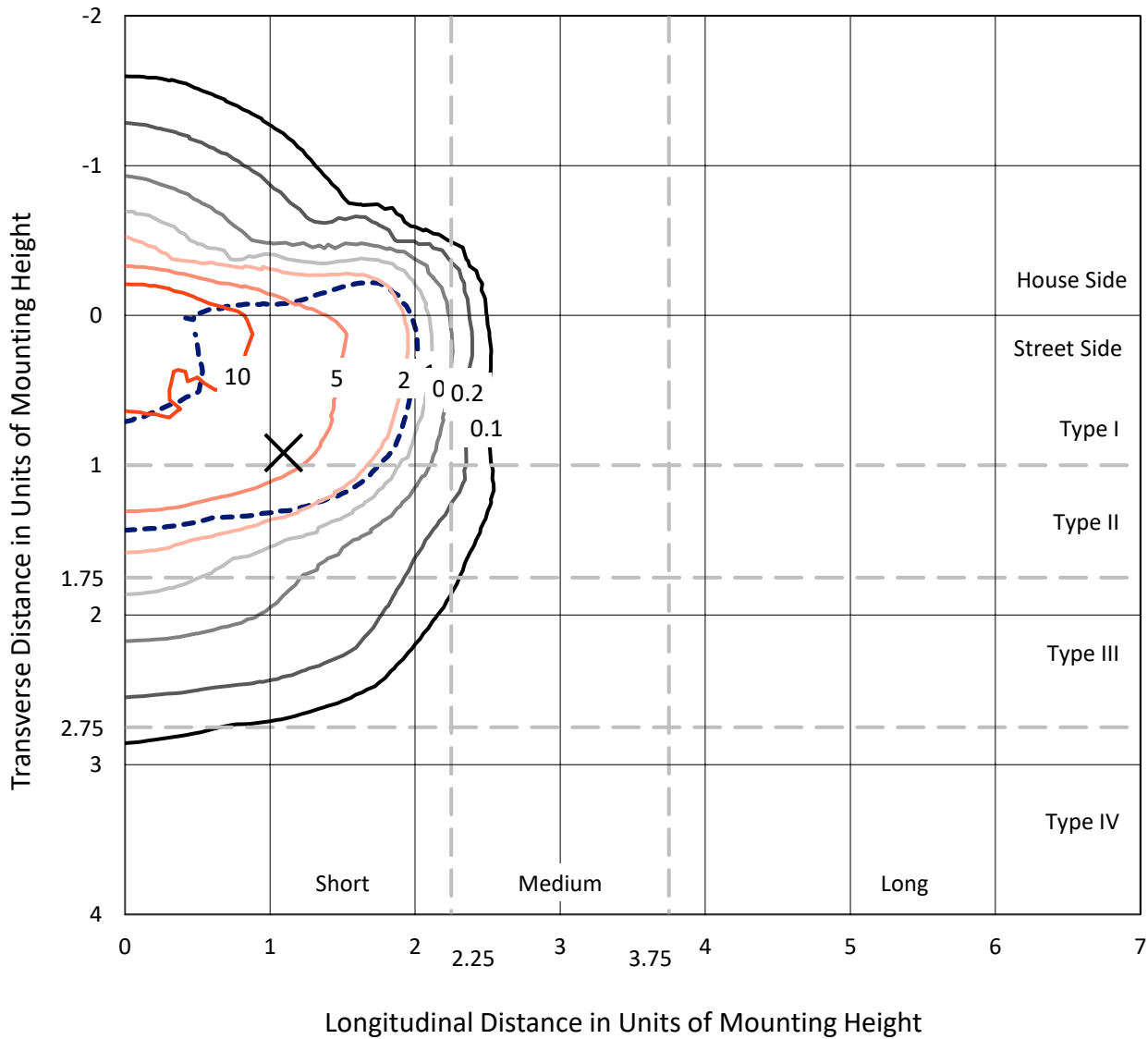
Lumens per Lamp: N/A  
Luminaire Lumens: 4851.8 lumens  
Efficiency: N/A  
Efficacy: 71.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 68.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

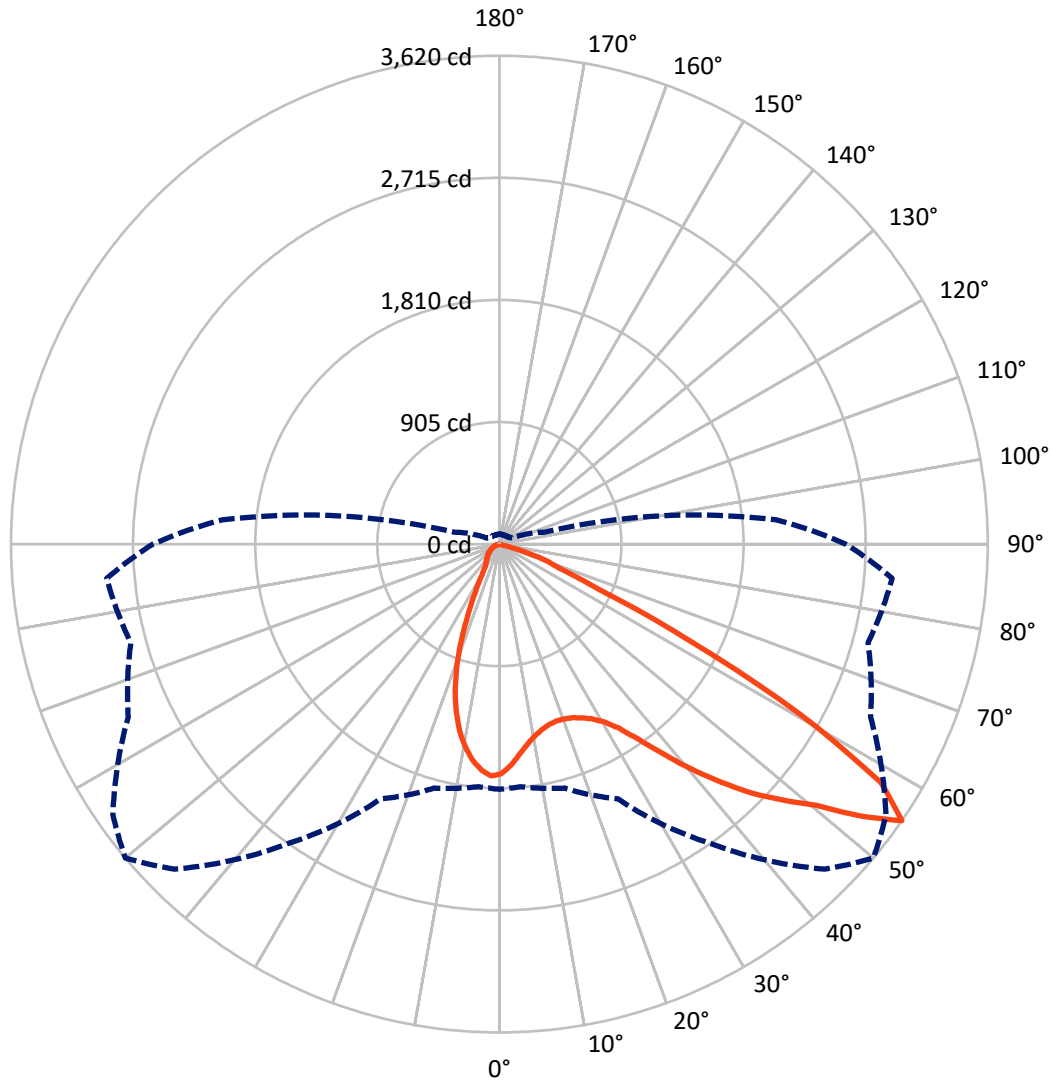
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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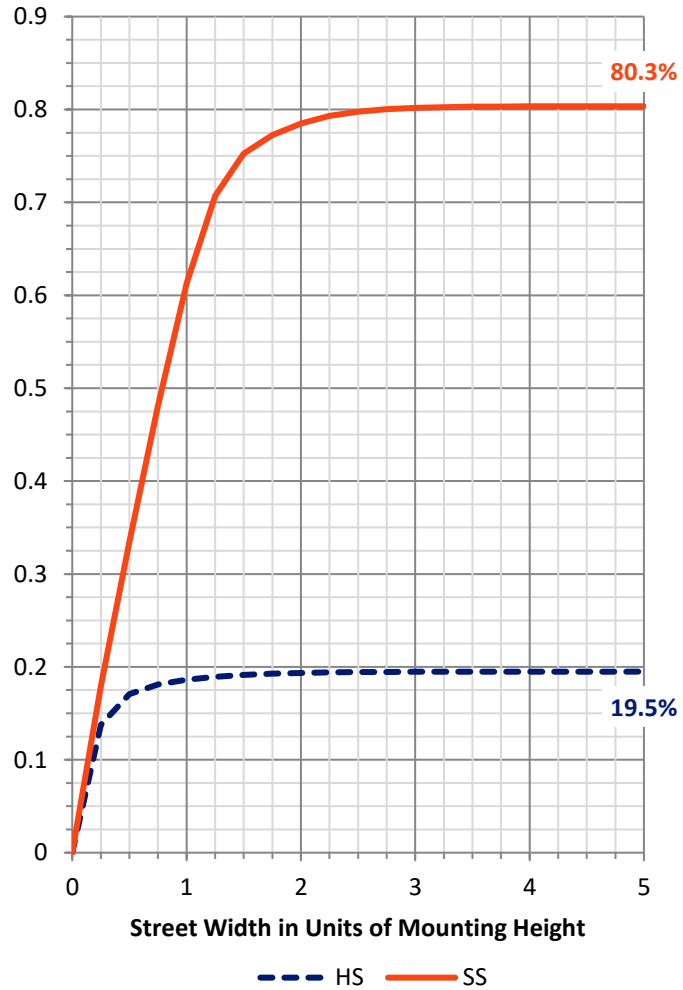
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	956.0	0.0	956.0
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	3895.8	0.0	3895.8
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	4851.8	0.0	4851.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.5	3.1
10°-20°	367.9	7.6
20°-30°	518.9	10.7
30°-40°	767.9	15.8
40°-50°	1107.8	22.8
50°-60°	1306.7	26.9
60°-70°	582.9	12.0
70°-80°	50.1	1.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4851.8	100.0
0°-180°	4851.8	100.0

**Coefficient of Utilization**



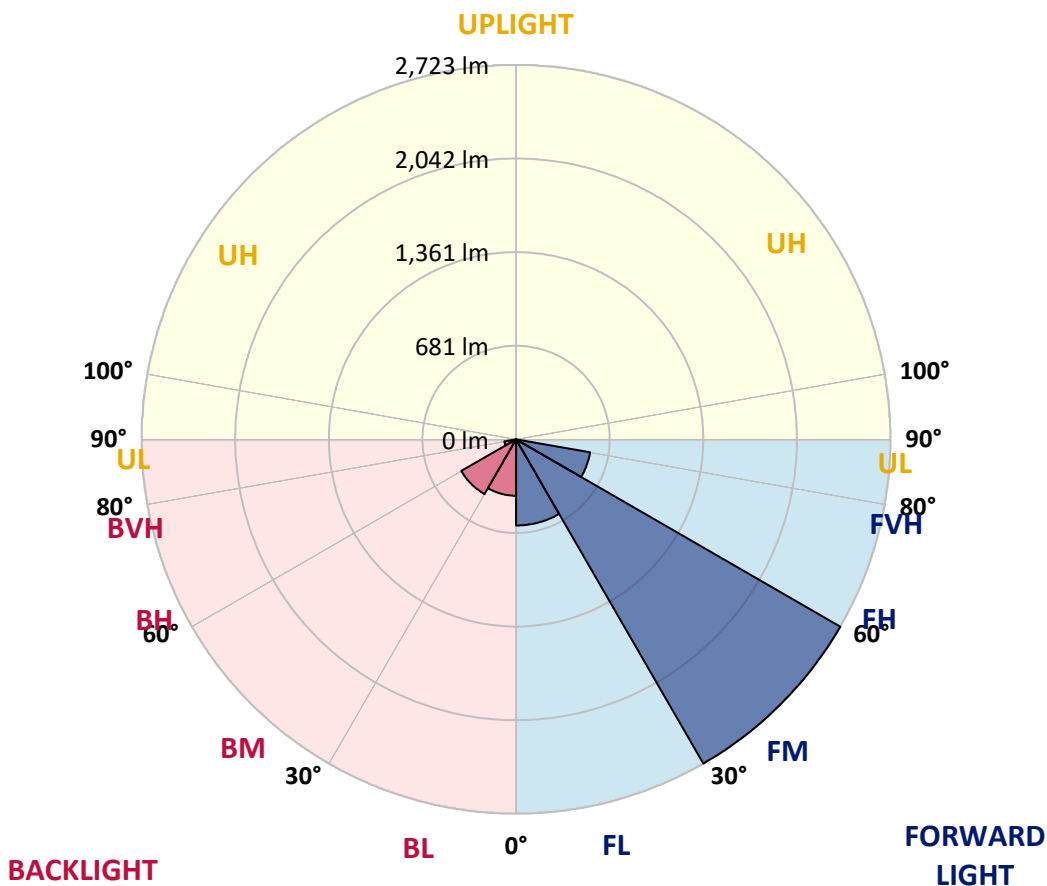
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	626.4	12.9			
FM (30°-60°)	2722.7	56.1			
FH (60°-80°)	546.7	11.3			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	409.9	8.4	B1/500		
BM (30°-60°)	459.8	9.5	B1/1000		
BH (60°-80°)	86.3	1.8	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3
2.5°	1581.5	1582.6	1583.2	1599.2	1605.1	1628.8	1641.3	1647.8	1665.0	1685.1	1701.7
5°	1475.4	1473.7	1476.6	1496.8	1509.8	1544.7	1563.7	1576.7	1614.6	1662.0	1701.7
7.5°	1383.0	1386.6	1390.1	1412.1	1431.6	1469.5	1496.8	1516.3	1569.0	1639.5	1706.4
10°	1317.9	1317.9	1323.2	1348.1	1371.2	1418.0	1445.2	1470.1	1532.9	1619.4	1711.8
12.5°	1269.9	1270.5	1277.0	1305.4	1332.1	1380.7	1409.1	1433.4	1502.7	1599.2	1712.9
15°	1247.4	1245.6	1250.9	1281.2	1310.8	1356.4	1386.0	1409.7	1481.4	1588.0	1718.9
17.5°	1241.5	1240.3	1244.4	1274.0	1304.3	1348.7	1377.7	1401.4	1478.4	1591.5	1736.6
20°	1258.6	1256.3	1254.5	1280.0	1308.4	1352.2	1382.4	1409.1	1492.6	1611.1	1763.9
22.5°	1299.5	1299.5	1295.4	1307.8	1326.8	1366.4	1397.8	1432.8	1529.9	1650.2	1804.2
25°	1374.7	1368.8	1361.1	1366.4	1364.1	1389.0	1426.3	1474.8	1600.4	1714.7	1853.3
27.5°	1460.6	1466.0	1452.9	1453.5	1432.8	1423.9	1467.1	1540.6	1705.2	1805.9	1926.2
30°	1577.3	1573.2	1573.8	1572.0	1524.0	1481.9	1528.7	1626.5	1837.3	1945.1	2020.9
32.5°	1668.5	1674.4	1694.0	1705.2	1642.5	1574.9	1624.7	1743.2	1987.8	2103.9	2137.0
35°	1765.1	1775.7	1815.4	1852.1	1799.4	1721.8	1775.1	1897.7	2129.3	2260.8	2270.3
37.5°	1866.9	1888.3	1935.6	2000.2	1991.9	1923.2	1971.8	2079.6	2240.7	2355.6	2380.5
40°	1983.6	2004.4	2081.9	2174.9	2194.5	2179.1	2195.1	2257.9	2314.1	2359.7	2427.9
42.5°	2111.6	2140.0	2238.3	2362.7	2436.1	2449.8	2412.5	2405.9	2346.1	2312.4	2417.8
45°	2262.6	2295.8	2407.1	2568.2	2684.9	2703.3	2638.7	2555.2	2366.3	2277.4	2387.6
47.5°	2432.0	2463.4	2574.2	2767.8	2941.4	2948.5	2836.0	2701.5	2426.1	2317.7	2410.7
50°	2488.9	2508.4	2604.4	2831.8	3151.6	3206.1	3043.3	2866.2	2546.3	2436.1	2523.2
52.5°	2293.4	2301.1	2384.6	2614.4	3109.0	3459.1	3345.9	3112.0	2760.1	2616.8	2696.8
55°	1817.2	1804.7	1872.3	2083.1	2702.1	3407.5	3620.2	3498.1	3035.6	2828.8	2922.4
57.5°	1271.1	1256.3	1240.9	1383.6	2016.2	2888.7	3335.9	3552.0	3297.9	3039.1	3165.9
60°	1044.8	1030.6	956.0	890.2	1219.0	2074.2	2562.3	2969.2	3276.6	3028.4	3158.2
62.5°	902.7	894.4	864.2	774.7	717.3	1184.0	1604.6	1994.3	2514.3	2378.1	2385.2
65°	709.0	706.6	727.3	736.8	634.4	655.1	818.6	1036.5	1359.3	1281.7	1215.4
67.5°	484.5	479.2	518.3	637.3	610.1	517.1	479.2	483.3	588.2	359.5	285.5
70°	308.0	295.6	296.2	395.1	496.4	408.1	369.6	325.2	292.6	53.3	60.4
72.5°	197.2	189.5	162.9	178.3	229.8	199.0	200.8	173.0	115.5	28.4	33.2
75°	82.9	76.4	58.6	46.8	46.2	29.0	25.5	23.7	16.0	16.0	17.2
77.5°	0.6	0.0	0.0	0.6	1.2	0.6	0.6	1.2	2.4	3.6	4.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3
2.5°	1711.8	1697.5	1713.5	1719.5	1718.9	1719.5	1702.3	1690.4	1689.8	1675.0	1667.9
5°	1718.3	1707.0	1718.9	1711.2	1692.8	1669.7	1638.9	1612.3	1600.4	1583.2	1574.9
7.5°	1730.7	1718.9	1717.1	1686.3	1640.7	1592.1	1537.6	1489.1	1463.0	1431.6	1433.4
10°	1739.6	1726.0	1702.9	1640.1	1564.3	1486.7	1405.5	1333.3	1287.7	1245.6	1238.5
12.5°	1743.2	1723.0	1669.1	1574.3	1467.7	1366.4	1247.4	1144.3	1073.3	1018.2	1010.5
15°	1749.7	1717.1	1625.9	1495.0	1348.7	1205.3	1053.7	912.7	818.6	755.2	760.5
17.5°	1759.7	1710.6	1577.3	1406.1	1220.7	1018.2	813.2	651.5	565.1	528.3	528.9
20°	1773.9	1702.9	1524.0	1308.4	1067.3	806.7	568.6	446.6	422.3	421.1	419.4
22.5°	1792.9	1695.2	1467.1	1201.2	885.5	565.1	378.5	340.6	350.6	370.2	373.7
25°	1815.4	1685.7	1403.8	1080.4	687.1	370.8	283.7	277.8	302.1	328.1	334.1
27.5°	1850.4	1681.0	1331.5	942.9	482.1	265.9	232.2	235.7	257.7	279.6	284.9
30°	1909.6	1689.8	1252.7	788.9	309.8	212.0	201.4	206.7	218.6	229.8	234.6
32.5°	1990.1	1715.9	1176.3	620.7	220.9	184.2	181.8	184.8	189.5	196.1	197.8
35°	2084.3	1760.9	1097.5	444.2	182.4	168.2	165.8	165.8	168.2	169.4	170.0
37.5°	2161.9	1808.3	1023.5	295.6	163.5	155.8	152.2	150.4	149.9	151.0	151.6
40°	2195.7	1827.8	942.9	215.0	149.9	144.5	139.2	133.9	133.9	138.0	138.6
42.5°	2172.0	1805.9	850.0	177.7	140.4	132.7	124.4	119.6	122.0	126.2	127.3
45°	2121.6	1752.0	747.5	157.0	130.9	120.8	111.4	108.4	110.8	116.1	117.3
47.5°	2113.3	1716.5	624.9	143.3	120.8	110.8	100.7	97.7	100.7	104.8	106.0
50°	2195.7	1747.3	488.7	131.5	111.4	100.1	91.8	88.8	90.6	93.0	94.2
52.5°	2346.1	1861.6	394.5	120.2	100.1	89.4	84.1	80.6	80.6	82.9	83.5
55°	2568.2	2061.2	340.6	107.2	87.1	81.1	76.4	72.9	72.9	74.0	74.6
57.5°	2824.1	2302.9	353.0	90.0	76.4	73.4	69.3	66.3	67.5	67.5	67.5
60°	2788.6	2285.1	377.9	75.8	67.5	66.3	62.8	61.6	64.6	62.2	61.0
62.5°	2054.1	1578.5	197.8	62.2	58.0	56.9	54.5	56.9	61.0	54.5	52.1
65°	997.4	764.1	79.4	50.9	49.2	48.0	46.8	50.3	52.7	42.6	40.3
67.5°	234.6	190.7	51.5	43.2	40.9	38.5	39.7	40.3	38.5	29.0	27.8
70°	61.0	59.8	40.3	36.1	32.6	30.2	30.2	29.6	25.5	18.4	17.2
72.5°	33.2	32.6	29.0	27.2	22.5	20.1	20.7	18.4	14.2	10.7	10.1
75°	16.6	17.8	16.6	15.4	12.4	11.3	11.3	10.1	7.1	4.1	4.1
77.5°	3.6	4.1	4.1	3.6	3.0	2.4	2.4	3.0	1.2	0.0	0.0
80°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)